

Hoff, Jennifer

From: Farivar, Farzan
Sent: Wednesday, January 28, 2015 9:24 AM
To: Tremblay, Cindy
Cc: Johnson, Randy J.; Hoff, Jennifer
Subject: FW: Request for right-of-entry (ROE) to sampling monitoring wells (UNCLASSIFIED)
Attachments: WDOT results.pdf; MosesLakeCleanup2014_InfoSheet.pdf

fyi

-----Original Message-----

From: Henzi, Veronica J NWS [<mailto:Veronica.J.Henzi@usace.army.mil>]
Sent: Wednesday, January 28, 2015 8:18 AM
To: Farivar, Farzan
Cc: Sblendorio, Frank; Romine, Bob; Howe, Fred
Subject: RE: Request for right-of-entry (ROE) to sampling monitoring wells (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Hi Farzan,

Thank you for the ROE. Your results are attached. For multiple samples on the same day, it meant we took duplicates or triplicates, which is a common practice to check field and analytical accuracy.

If you review the Moses Lake info sheet, it explains that the level of concern in drinking water is 5 (or more) parts per billion (ppb = ug/L). All of your results are less than this value.

Veronica

Veronica Henzi
Project Manager / Environmental Engineer Military, Environmental, and IIS Branch USACE, Seattle District
Tel: 206-316-3973
veronica.j.henzi@usace.army.mil

-----Original Message-----

From: Farivar, Farzan [<mailto:FarivaF@wsdot.wa.gov>]
Sent: Tuesday, January 27, 2015 4:20 PM
To: Henzi, Veronica J NWS
Cc: Sblendorio, Frank; Romine, Bob; Howe, Fred
Subject: [EXTERNAL] RE: Request for right-of-entry (ROE) to sampling monitoring wells (UNCLASSIFIED)

Veronica,

Attached please find the scanned copy of the signed ROE for the added monitoring well on our property. You mentioned that this has been requested from you by the EPA. Would you please provide the result of the sampling done to date on the remaining wells at this site. Thank you.

-----Original Message-----

From: Henzi, Veronica J NWS [<mailto:Veronica.J.Henzi@usace.army.mil>]

Sent: Monday, January 26, 2015 4:13 PM

To: Farivar, Farzan

Subject: Request for right-of-entry (ROE) to sampling monitoring wells (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Hi Farivar,

Because Ted is no longer there, I've prepared new ROE for the DOT wells. This new one adds well "00AW13," which is located on the same piece of property as the other wells, near Highway 17 and Patton Blvd. Please see attached "DOT wells" document. The wells may be on the triangle to the left of the one I have clicked, but that parcel too is also owned by DOT.

For the ROE:

1. Please note that in paragraph 2, you need to check one of the boxes. If you chose the first, we'll need to update this ROE every five years with you. If you check the second, the ROE will be valid indefinitely (until EPA confirms that site is cleaned up). If you are planning to sell this property, I would very much appreciate it if you could let me know who the buyer is.

2. I've typed your name first name on the back. If you could please add your last name, and then sign next above it, scan, and return, that would be great.

If you have any questions or would like more information, please let me know. I've also attached an "InfoSheet" that shows what EPA is doing to cleanup groundwater contamination in the Moses Lake area.

Thank you very much for your help,

Veronica

Veronica Henzi

Project Manager / Environmental Engineer Military, Environmental, and IIS Branch USACE, Seattle District

Tel: 206-316-3973

veronica.j.henzi@usace.army.mil

Classification: UNCLASSIFIED

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**DEPARTMENT OF THE ARMY
RIGHT-OF-ENTRY FOR WELL SAMPLING**

PROJECT: Former Larson Air Force Base / Moses Lake Wellfield Superfund Site

WELL NUMBER(S):

00BW16
12BW03
12CW02
00AW13

NAME AND ADDRESS OF OWNER:

WSDOT
1551 N. Wenatchee Avenue
Wenatchee, WA 98801-1156

WELL SITE ADDRESS:

Highway 17 and Patton Blvd

PARCEL NUMBER(s):

170224300, 17024400, 170273000, 170195000

1. The undersigned, hereinafter called the "Owner," in consideration for the mutual benefits of the work described below, hereby grants to the UNITED STATES OF AMERICA, hereinafter called the "Government," a right-of-entry upon the following terms and conditions:

2. The Owner hereby grants to the Government an irrevocable right to enter upon the lands hereinafter described at any time (check one):

- ☒ within a period of (5) years from the date of this instrument, or
☐ from the date of this instrument until remedial action is completed,

in order to perform environmental investigations. The investigatory activities may include periodically taking water samples for chemical analysis of trichloroethene (TCE) and other chemicals of concern from the well located on the property, and carrying out exploratory work as may be necessary to complete the investigation being made of said lands by the Government.

3. The right-of-entry includes the right to ingress and egress on other lands of the Owner not described below, provided such ingress and egress is necessary and not otherwise conveniently available to the Government.

4. All tools, equipment, building, improvements, and other property taken upon or placed upon the land by the Government shall remain the property of the Government and may be removed by the Government at any time within a reasonable period after the expiration of this right-of-entry.

5. If any action of the Government's employee or agents in the exercise of this right-of-entry results in damage to the real property, the Government will, in its sole discretion, either repair such damage or make an appropriate settlement with the owner. In no event shall such repair or settlement exceed fair market value of the fee title to the real property at the time immediately preceding such damage. The Government's liability under this clause is subject to the availability of appropriations for such payment, and nothing contained in this agreement may be considered as implying that Congress will at a later date appropriate funds sufficient to meet any

deficiencies. The provisions of this clause are without prejudice to any rights the Owner may have to make a claim under applicable laws for any damages other than those provided for herein.

6. The Government agrees to notify the owner a minimum of 48 hours in advance prior to the sampling.

7. The land subject to this permit or right-of-entry is located in the City of Moses Lake, County of Grant, State of Washington.

WITNESS MY HAND this 27 day of January, 2015.



RES- ASSISTANT MANAGER / WSDOT
(Signature/Title)

509-667-2933 / farivaf@wsdot.wa.gov
(Phone No.)

UNITED STATES OF AMERICA

PATRICIA FATHERREE
Chief, Realty Operations Branch
Real Estate Contracting Officer

Well ID	Sample Date	Chemical Name	Result	Units
00BW16	6/12/2013	TRICHLOROETHENE	< 0.20	ug/l
00BW16	6/24/2014	TRICHLOROETHENE	< 0.20	ug/l
00BW16	10/5/2014	TRICHLOROETHENE	< 0.20	ug/l
00BW16	11/20/2014	TRICHLOROETHENE	< 0.20	ug/l
12BW03	6/11/2013	TRICHLOROETHENE	0.83	ug/l
12BW03	6/11/2013	TRICHLOROETHENE	0.69	ug/l
12BW03	6/27/2014	TRICHLOROETHENE	0.94	ug/l
12BW03	6/27/2014	TRICHLOROETHENE	0.88	ug/l
12BW03	9/29/2014	TRICHLOROETHENE	0.90	ug/l
12BW03	9/29/2014	TRICHLOROETHENE	0.59	ug/l
12BW03	11/18/2014	TRICHLOROETHENE	0.94	ug/l
12BW03	11/18/2014	TRICHLOROETHENE	0.64	ug/l
12BW03	11/18/2014	TRICHLOROETHENE	0.60	ug/l
12CW02	6/11/2013	TRICHLOROETHENE	0.41	ug/l
12CW02	6/27/2014	TRICHLOROETHENE	0.11	ug/l
12CW02	9/29/2014	TRICHLOROETHENE	0.29	ug/l
12CW02	11/18/2014	TRICHLOROETHENE	0.27	ug/l

Moses Lake Wellfield Superfund Cleanup



Groundwater and Soil Cleanup Continues

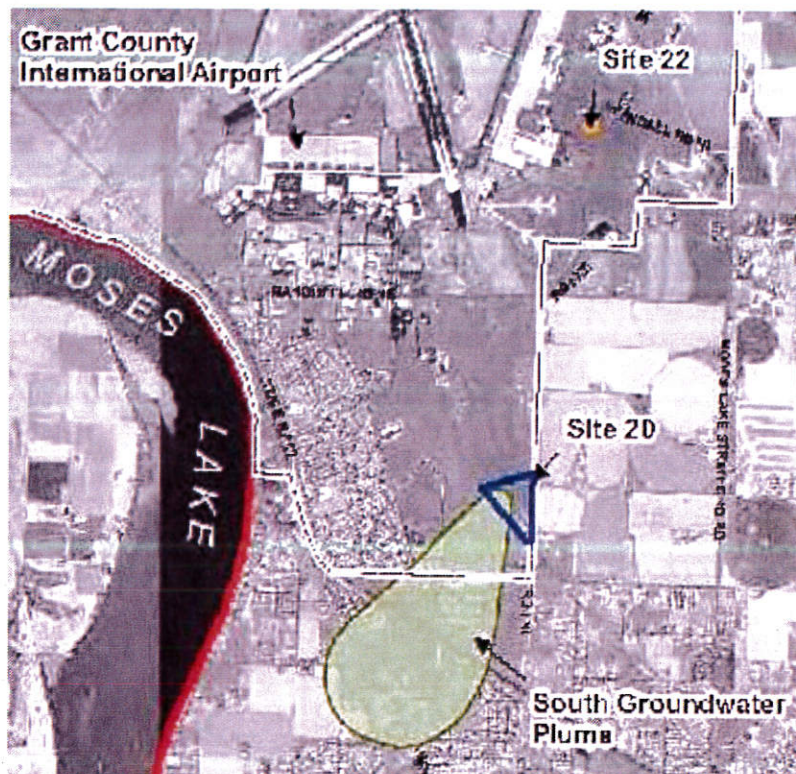
Moses Lake, Washington

Summer 2014

Groundwater Study

EPA is continuing with a long-term cleanup of the Moses Lake Wellfield Superfund site that began last summer. The groundwater and soil cleanup areas include parts of the old Larson Air Force Base, Grant County Airport, and some areas south of the airport. Excavation of site 20, one of the suspected trichloroethylene (TCE) sources, will begin in the next several months. EPA has been testing and designing a groundwater treatment system to remove TCE. The groundwater plumes will not be easy to clean up since they are very deep below ground and spread over a large area.

Most residents in Moses Lake get their drinking water from the city's municipal system or a community system. The city and community system operators test these public wells regularly to meet safe drinking water standards. EPA and the Army Corps of Engineers test private drinking water wells in the Superfund site regularly to be sure they are safe. Several private wells within the Superfund site have whole-house filters installed to remove TCE. EPA's long-term cleanup will restore the groundwater as a drinking water source.



Moses Lake Superfund Site - 2013 Investigation and Cleanup Areas

Groundwater Treatment

Two groundwater TCE plumes begin under the old Larson Air Force Base and spread over a mile to the south. EPA is starting cleanup at the South Groundwater Plume since it is closer to homes with private wells. We want to clean up the source of this plume.

- The South Groundwater Plume starts 150–250 feet underground at the South Base Dump (Site 20) and goes about 1.3 miles south-southwest. We found TCE levels in this plume from 88 parts per billion (ppb) beneath the dump and down to 5 ppb at the outer edges further south.
- Last summer and fall we installed groundwater monitoring and extraction wells to learn more about the size of the plume and the best way to clean it up. We are designing the groundwater treatment system to pump out groundwater and remove TCE. It is expected to be operational at the end of 2015.
- We will keep the treatment system going until the groundwater meets EPA's safe drinking water standard of 5 ppb TCE.

Soil Sites

Twelve soil sites on the former Larson Air Force Base and around the Grant County Airport were used as dumps and landfills. Toxic metals like arsenic, lead, and mercury, plus gasoline, diesel, oil, PCBs, and TCE waste may have been disposed at these locations. EPA will clean up two of the sites that pose the biggest environmental risk first. To date, two sites have been evaluated:

- At the South Base Dump (Site 20), EPA has tested the soils and the groundwater. EPA will begin excavating this site in the next several months.
- At the Paint Hangar Leach Pit (Site 22), additional soil testing at the surface and at depth, showed that the site meets EPA's levels for industrial areas.

Cleanup evaluation and design are ongoing for the other ten dump and landfill sites to determine which sites to target first.

Expanded Private Well Sampling

Over the last year, the Army Corps of Engineers sampled many new wells that had never been sampled before, and some wells that had not been sampled for several years. As part of this increased sampling additional residences had Whole House Filters installed. All of the old Whole House Filters were removed and replaced with brand new units.

An interactive online map is now available for residents to keep track of water sampling results.

<http://geo.usace.army.mil/egis/cm2.cm2.map?map=MOSESLAKE>

Cleanup History

In 1988, the State found TCE above the safe drinking water standard in three City water supply wells on the old Larson Air Force Base and in the Skyline Water System supply wells south of the base. TCE is an industrial solvent historically used at the base and the airport for cleaning and stripping missile and airplane parts. The City fixed the wells by extending the well casings to seal off the contaminated aquifer zones. The Skyline community received bottled water until the Army Corps of Engineers constructed a new Skyline Water System well.

EPA put the Moses Lake Wellfield Superfund site on the National Priorities List in 1992 and since then, EPA and the Army Corps of Engineers have continued testing private wells throughout the site. Several homes use whole-house filters installed at their wells to remove TCE from their water. EPA issued a final interim cleanup plan in 2008. In 2010, EPA and the Army Corps of Engineers signed a cleanup settlement with Boeing, Lockheed Martin, and the City of Moses Lake. Boeing, Lockheed Martin, and City of Moses Lake will pay \$3.25 million for cleanup and the federal government will pay \$55 million.

Contact EPA

Rod Lobos, EPA Superfund Project
Manager

lobos.rod@epa.gov
509-376-3749

Find more information on the Moses Lake Wellfield Superfund cleanup online at:

<http://go.usa.gov/dvh>

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